Non-Commercial Joint-Stock Company «Kazakh National Agrarian Research University»

AGREED

Chairman of the Management Board «Kazakh Scientific Research Institute of Animal Husbandry and Feed

Production LLP

A. Torekhanov

2023

APPROVED Chairman of the Board - Rector A.Kurishbaev 2023

EDUCATIONAL PROGRAM

7M08203- «Technology production of livestock products»

Awarded degree: Master of Agriculture under the educational programme 7M08203-«Technology production of livestock products»

(in the field of study 1,5 year)

Approved at the meeting of the Department «Zooengineering» Protocol No. 15, «15» 2023
Head of the department Sh. Adylkanova
Considered at meetings Academic Committee of the Faculty of «Zooengineering and food production technology» Protocol No 04 « 14 » 03 2023
Chairman of the AC of the faculty Ye.Baimazhi
Reviewed by the Educational Methodological Council of the University and recommended to the Academic Council Protocol No 03 « 28» 03 2023
Chairman of the EMC of the University Maiyrbaeva
The educational program was approved at the meeting of the Academic Council of KazNARU Protocol № 11, «05» 09 2023
Developers:
Dean of the Faculty B. Yerenova
Head of Department Sh. Adylkanova
Teacher: Candidate of Agricultural Sciences., Assoc. Ye. Baimazhi professor
professor Undergraduate Canduate Z.Minahmetova
Graduate 3 Z.Minahmetova
Workaday:
Chairman of the Management Board «Kazakh Scientific Research Institute of Animal Husbandry and Feed Production» LLP A. Torekhanov
Agreed:
Head of the Educational Programs Design Office Typingh Zh. Kussainova

Application

It is intended for the training of masters in the modular educational program «7M08203-Technology production of livestock products» in NAO " Kazakh National Agrarian Research University»

Regulatory documents:

«On Education» The Law of the Republic of Kazakhstan dated 27 July, 2007 No. 319-III;

Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 №2;

Classifier of training programs for personnel with higher and post-graduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan of October 13, 2018 No. 569;

Standard Rules for the activities of educational organizations implementing educational programs of higher and (or) postgraduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan of October 30, 2018 No. 595;

Rules of the organization of the educational process on credit technology of training. Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 12, 2018 No. 563;

Algorithm of inclusion and exclusion of educational programs in the Register of educational programs of higher and postgraduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan No. 665 dated December 4, 2018;

Order No. 106 of the Minister of Science and Higher Education of the Republic of Kazakhstan dated October 12, 2022. Rules for keeping the register of educational programs, implemented by the organizations of higher and (or) postgraduate education, as well as the grounds for inclusion in the register of educational programs and exclusion from it.

The website of NCE Atameken http://atameken.kz/

1. Passport of modular educational program

Education area code and classification	7M08 Agriculture and bioresources
Code and classification of training areas	7M082 – Farming
Code and name of the educational program	7M08203- «Technology production of livestock products»
Type of educational program	Active
The purpose of the educational program	Training of highly qualified and competitive specialists in the field of animal husbandry, in demand in production organizations and farms of various forms of ownership.
A-level ISCED	7
The level on the NQF	7
Level by ORC	7
Number of the application to the license for the direction of training	KZ42LAA00006720 No. 10 from July 05, 2019
Accreditation	Certificate
The name of the accreditation body	HAAP
The period of validity of accreditation	05.12.2016 -04.12.2021 y.
Degree awarded	Master of Agriculture under the educational programme 7M08203-«Technology production of livestock products»
Learning outcome	Table 2
List of qualifications and positions	The graduate can carry out professional activities in the following areas: - head of the artificial insemination center; - zootechnician; - specialist in animal husbandry; - specialist in keeping and feeding of farm animals; - Teacher in animal husbandry, breeding of agricultural animals, feeding of agricultural animals in secondary special and higher educational institutions - Researcher in research organizations
Field of professional activity	Educational organizations, including universities, research organizations, all branches of animal husbandry, organizational and management activities, experimental research, research, educational activities on the technology of production of animal products.
Sphere and object of professional activity	 - research institutes and educational organizations of any profile; - state institutions of the Ministry of agriculture, animal husbandry forms of ownership, poultry farms, racetracks, breeding farms and breeding plants, zoos, scientific laboratories, reserves, livestock companies, and vocational schools
Functions of professional activity	Educational program 7M08203- Technology production of animal products includes 1.5 (one and a half years) educational trajectories: Undergraduates study milk production technology, beef production technology, horse breeding technology, horse breeding training and racetrack testing. Undergraduates study the technology of breeding chickens of farm animals, the

	technology of production of poultry products, sheet technology, sheep wool production technology. Master's degree in General technology for all educational trajectories, foreign language (professional) management, psychology, project management, business decision modeling, innovative animal production technology, animal feeding technology and feeding, animal behavior, theoretical foundations of breeding, animal breeding studies subjects.
Types of professional activity	Masters courses 7M082 - Farming can perform the
	following types of professional activities:1. Project technological:
	- organizational, technological services, management activities, management and marketing at production facilities in various sectors of animal husbandry and biotechnology; conducting research on the design implementation of organizational activities in various field of animal husbandry.
	2. Organizational and management:
	higher and postgraduate educational institutions, researchinstitutes, various agricultural organizations (firms enterprises, farms), social and entrepreneurial complexe (SEC), local and national agricultural management bodies livestock and poultry farms; Agriculture; management institutes; enterprises for processing animal feed; Zoo racetrack; industry laboratories, departments, departments departments in the structures of the local managements 3. Research:
	- carrying out research work to increase the productivity o animals;
	 research and development of measures for th conservation of local animal breeds; organization of works and seasonal activities in livestock facilities 4. Scientific-pedagogical:
	 study of modern methods of teaching discipline technology of production of animal products; development of scientifically-based methods of professional development of employees at all levels; the use of innovative teaching technologies in the process of pedagogical activity.
To be competent	 on the scientific organization of work, computer methods of collection, storage and processing of information used in the field of his professional activity; in legal matters to resolve disputes in the collective and other economic entities.

2. Learning outcomes on EP

Codes	Learning outcome
PO1	Application at the professional level of knowledge and skills of innovative technologies for the production of livestock products, detailed nutrition of farm animals and birds
PO2	Demonstrate knowledge and understanding of the methodology of scientific research in animal husbandry, know the methods of project management in entrepreneurship, conflictology and modeling of business decisions
PO3	Apply knowledge to solve practical problems in the field of breeding of agricultural animals and management of genetic resources in animal husbandry
PO4	Formulate arguments of the theoretical foundations of breeding and solve problems in the field of genetic resources management in animal husbandry.
PO5	Understand the principles and know the methods of technological processes for the production and processing of lamb, wool and poultry products.
PO6	Knowledge and understanding of the studied facts, phenomena, theories and complex dependencies of technological processes of production and processing of livestock products.

3. Content of the educational program «Technology production of livestock products»

	lc	contro	Form of							exam		exam	exam	
		tment	Depar							14	,	7	9	
	edits	urse	4											
	Distribution of credits by courses and semesters	2 course	\sim											
	Distribution of by courses and semesters	course	7										2	
	Distr by co	1 co	-							7	,	7		
		Extracurricul ar	MMI	840	225			06		30		30	30	135
		Extrac	TMWI	280	75			30		10	,	10	10	45
ours			Other (practice)	0	0			0		0	,	0	0	0
le in h		оош	Laboratory research	0	0			0		0	-	0	0	0
Volume in hours		Classroom	Practical class	392	105			42		14	,	4	14	63
			Lectures	168	45			18		9	,	9	9	27
		LZ	Total academic hou	1800	450			180		09		09	09	270
	stibəra	o oimə	Total in acad	09	15			9		2		7	2	6
	иє	اتا اتا عند تق The name of the discipline	Code of d	Theoretical training	Core subjects cycle:	University component / Optional Component	Core subjects cycle	University component			60201 purposes)	M602 Management	MP Managerial Psychology 70301	Optional component
		OC .	nc/	TO		7)	CC	UC	;;		1	UC M6	UC 7(OC
NoPP				1 T	CC	OC/ OC	1.1		including:	1.1.1 U	-	1.1.2 U	1.1.3 U	2) (

1.1.4	0C	UTPP Zh 60203	Innovative technologies of production of animal products	w	150	15	35	0	0	25	75	5		27	exam
1.1.5	0C	DNF AB 60204	Detailed nutrition of farm animals and birds	4	120	12	28	0	0	20	09	4		27	exam
MS: UC/OC	C/0C		Major subjects cycle (MS): University component / Optional Component	45	1230	123	287	0	0	205	615				
1.2	MS		Major subjects cycle (MS)												
1)	CC		University component	20	009	09	140	0	0	100	300				
1.2.1	CC	MNIT	Methodology of scientific	S	150	15	35	0	0	25	75	5		27	 exam
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		PPZh 60205	research in the technology of production of livestock products												
1.2.2	UC	PMFE 70302		7	210	21	49	0	0	35	105		7	2	exam
1.2.3	nc	Con 70303	Conflictology	4	120	12	28	0	0	20	09		4	9	exam
1.2.4	nc	MBS 70304	Modeling business solutions	4	120	12	28	0	0	20	09		4	2	exam
2)	0C	Option	Optional component	21	630	63	147	0	0	105	315				
1.2.5	00	UGR Zh 60206	Genetic resources management in animal husbandry	w	150	15	35	0	0	25	75	S		27	exam
1.2.6	00	TBS 60207	Theor	5 Solution	150	15	35	0	0	25	75	5		27	exam
101	00	TDM	Tachnology of boof and milk 6 180 18 47 0 0 0 30 00	6	180	18	42			30 - 30	ing S		9	77	200
1.2.7	3	1 BIVI P 60307	production	>	100	0	7	>		00	26		p	7	exalli
1.2.8	00	TPHB 60308	Technology of production of horse breeding	w	150	15	35	0	0	25	75		5	27	exam
		Educa	Educational trajectory No.2 Technology of producti	produc	ction of sheep breeding and poultry farming	eep bre	eding a	nd bu	oultry	farmin	ac				

1.2.9	0C	1.2.9 OC PTPS	Production technology for	9	180	18	42	0	0	30	06		9		27	exam
		hMW	processing sheep meat and wool													
1.2.1	00	FIPPP	Fundamentals of industrial	S	150	15	35	0	0	25	75		V		77	evam
0		60310	60310 production of poultry products										,		i —	
3)			Workplacement training	4	120				120				2	7	27	exam
2		EIRM	EIRM Experimental research work by a	18	540				540			2		16		-
	que no proporté	60300	60300 Master's Degree student including)
			an internship and a Master's Thesis.													
e		FA	Final assessment (FA)	12	360				360					12		
		60300														
		7											***************************************			e de la constante de la consta
1		Prepara	Preparation and defence of Master's Thesis													PDMT
		(PDMT)														
			TOTAL:	06	2700	162	398	0	0 1020	280	840	30 30		30		

Competence of scientific and pedagogical magistracy in Direction of preparation 7M08203- "Technology production of livestock products»

Description of competence, rus.	Type competence	№ competence
Knowledge of history and philosophy of science development	TC	1
Ability to conduct reasoned conversation on a wide range of scientific issues	TC	2
Ability to demonstrate broad-mindedness in matters of philosophy of science, psychology and pedagogy	TC	3
Ability to conduct a professional conversation in an international environment in English	TC	4
Be competent in matters of innovative technology of production of animal products;	TC	5
Be competent: in questions of application of various methodological approaches for the zootechnical and chemical analysis of forages, receptions and technology of production of forages and fodder means; abilities independently to organize and carry out scientific researches with use of modern methods of technology of production of forages, the analysis of soil and vegetative samples.		6
The master's student must be competent in the performance of production, organizational and managerial and experimental research activities at enterprises and organizations of the agroindustrial complex.	TC	7
in matters of genetics, breeding and breeding and reproduction of farm animals	TC	8
be competent to generalize and critically evaluate the results obtained by domestic and foreign researchers, to identify promising directions, experiments of biometric processing of experimental data, writing of experimental methodology, registration of patent rights and rights of authors of inventions of other intellectual property objects.	TC	9
In matters of cow's milk production technology	TC	10
In matters of beef production technology	TC	11
- test horses at montirovka riding and trotting horse breeds in the definition rating of racehorses and trotting horses, determination of prize-winning places in equestrian sport; when montirovka riding and trotting horses.	TC	12
in conducting research and the use of modern methods in meat and dairy horse breeding	TC	13
conduct zootechnical and breeding accounting and reporting using genetic-mathematical and statistical analysis using computers and personal computers;	TC	14
to conduct breeding work with birds of different species in a	TC	15

specific technology; to manage the work of shops, teams,		
laboratories; to conduct zootechnical and breeding accounting and reporting using genetic, mathematical and statistical analysis using computers and personal computers; to make decisions independently		
to be competent: skills of cultivation, intensive cultivation and the organization of the correct feeding and fattening, technologies of complex scientific researches of slaughter, preslaughter and slaughter weight, slaughter output, structure and cuts, weight and size of carcass, difference of weight of steam and in the cooled carcasses, chemical composition of meat of sheep of various directions of productivity for production of mutton	TC	16
in questions of methodology of search and application of classifications of standards of wool, wool of the processing industry, skills of identification, methods of an assessment of quality and safety, a semi-finished product for diagnostics of defects, skills of the organization of acceptance of wool raw materials on quality and quantity, rules of technology of primary processing, sorting and washing, its storage, transportation and marking of wool.	TC	17
Knowledge of the basics of scientific research, management of scientific projects, business solutions	TC	18
Ability to control the psychological climate in the production team	TC	19
The ability to select personnel for professional suitability	TC	20
Ability to form in collective psychology of safe thinking	TC	21
Ability to work with scientific and special literature in search of solutions to scientific problems.	TC	22
Understanding the special social, scientific and technical significance of their profession	TC	23
The desire to continue scientific education in the chosen specialty and to develop as a scientist in demand by the labor market	ТС	24
Ability to professional growth and professional mobility	TC	25

4. Map of competence modules

Core competencies	Learning outcome
Module 1.	
Scientific communication and management Ability to apply modern technologies - communication technologies in everyday life and professional field; the use of common and General professional foreign language's	Evaluate problems and have an understanding of the methodology of agricultural science in the field of animal husbandry.
Module2. Productive animal husbandry	Know:
Innovative technologies of livestock production and food safety. Technology of cultivation of young growth of agricultural animals and birds, preparation of certain types of feed and fodder.	- the main directions of the livestock industry in Kazakhstan and abroad, the best experience of domestic and foreign rational innovative technologies of production of livestock products, standards of breeds of farm animals in Kazakhstan and abroad, depending on the direction of productivity, issues of formation, accounting and sales of products. Can:
	- perform independent calculations of technological parameters in the organization of agricultural enterprises, plan on the basis of innovative technologies for the production of environmentally friendly, resource-saving products of livestock and poultry; - to be guided in situations arising at not foreseen technological processes providing production of high-quality and environmentally friendly production;
Module 3. Methods of improvement of farm animals The current state of genetic resources of the main species of domestic animals in the world and in Kazakhstan. The importance of genetic resources in society. Use of world genetic resources in further breed formation and improvement of breeding and productive qualities of animals. Genetic and population bases of selection; Ways of preservation, improvement and improvement of gene pool of existing and creation of new	Know: problems of conservation of species and breeds of farm animals; negative consequences of depletion of genetic resources of farm animals; methods of improvement of productive and breeding qualities of agricultural animals. - biological and genetic bases of selection; problems of adaptation and stress resistance of agricultural animals; methods of determination of stress resistance; influence of stress on productivity of agricultural animals. - Can:
breeds of animals; use of resources of gene pool in the conditions of intensification of animal husbandry.	- to study the structure of the gene pool of populations by qualitative characteristics using methods of genetic and statistical analysis; to analyze the variability of quantitative characteristics in the population in order to use them in breeding; to analyze the reliability of the origin of animals using biochemical systems;
Module 4.	Know:
Organization of the learning process in higher education. Pedagogical science and its place in the system of human Sciences. Modern paradigm of higher education. Professional and	 - actual problems of modern higher education and pedagogical science; - social and psychological nature of pedagogical activity;

communicative competence of the teacher of the higher school. The theory of teaching in higher education. Content of higher education. Organization of the learning process on the basis of the credit system of higher education. Traditional and innovative methods and forms of training organization. New educational technologies in higher education.

- ways of conflict resolution, strong emotional feelings, origin, development and ways of conflict resolution;

Can:

-to create a creative and developing environment in the process of training and education; use the necessary psychological and methodological resources for the preparation and conduct of classes (lectures, seminars, CPMP and exams);

-to solve the actions opposing conflicts, to resist negative actions, to understand the motives of the conflict;

-to understand motives of the conflict, to apply the knowledge on pedagogical practice.

Module 5. Breeding

The main directions of intensification of dairy and meat animal husbandry. Technological scheme. Equipment shops. The purpose of the workshops and the organization of production groups. Feeding and milking cows at the PCC milk production. Factors influencing the formation of meat productivity, methods of increasing meat productivity, quality and nutrition of meat. Evaluation of the quality of the offspring, testing on their own productivity, industrial crossing-a method of creating highly productive meat animals.

Module

6. Horse breeding

мясных качеств лошадей выращеваемых в РК и СНГ. Оптимальная структура табуна мясного напровления. Вывращивание молодняка лошадей мясного направления. Откорм и нагул лошадей. Молочная продуктивность лошадей Biological and physiological features of sports horses, assessment and selection on the exterior and Constitution of riding and trotting breeds, physiological basis of training, modern

technology of Hippodrome training and testing of

Показатели

Know:

design methodology using methods and models of operations research;

use of gene pool for qualitative transformation of dairy and dairy-meat breeds;

Can:

to use the basic laws of natural science disciplines in professional activity, to apply methods of zootechnical analysis and modeling, theoretical and experimental research in the system of cattle breeding;

to apply methods of the zootechnical analysis and modeling, theoretical and experimental research in system of cattle breeding;

Know:

- value of productive horse breeding, directions, modern requirements, production technology; high-value breeds of horses of productive direction and their biological features;
- -breeds of horses used for racing and trotting races, exterior and constitutional features, principles and methods of training of riding and trotting breeds, bases of preparation for races and races, work carried out on hippodromes, regularities of growth and development of young horses, technology of feeding and the contents, methods of an assessment and selection of horses for equestrian sport:

Can:

to distinguish between riding and trotting breeds, to evaluate and select the exterior and Constitution, to conduct training and racetrack tests of riding and trotting horses, to prepare horses for competitions, to use the training equipment correctly, to fill in the cards and forms in breeding horse breeding.

Module

horses

7. Poultry

State and prospects of development of industrial

Know:

intensive methods of keeping poultry with the use of energy and resource-saving techniques; industry poultry in the world in the Republic of Kazakhstan. Biological features of young farm birds. Organization of breeding work with the bird. Exterior, interior and Constitution of young birds. Breeding work with young animals of different types of poultry. Methods of estimation of daily young growth. Features of cultivation of repair young growth for acquisition of breeding and parent herd.

Broiler meat production technology

standards for all technological processes of growing young birds; modern methods and means of planning and organization of research and development, experiments and observations, generalization and processing of information, including the use of computer programs; theoretical foundations of breeding, genetics and reproduction of poultry; organization of breeding work with poultry at breeding

Can:

select a bird for exterior signs; assess the young egg and meat production; to determine the deviation from the norm in industrial conditions of poultry breeding density planting, feeding level and other technological parameters; to determine the capacity of the enterprise, its need for repair young growth

Module

8. Sheep breeding

Efficient use of intensive sheep meat and wool production technology in sheep farming. Development of technologies of the company in sheep breeding with intensive use of reproduction of a flock of sheep. Maximum use of reproduction methods. Production of low-cost, environmentally friendly, lamb and lamb. resource-saving technology of production of sheep products in a market economy. Intensive rearing of young sheep. Industrial technology of production of mutton.

Know:

maximum use of intensive technology of production of sheep meat in sheep breeding, with the improvement of quality and its improvement in this regard, the production of environmentally friendly products of lamb and lamb;

technology of production of wool of sheep and definition of their quality, improvement, preparation and realization.

Can:

in a market economy to be able to manage farms of different ownership in this regard to be able to produce high-quality and profitable products sheep meat; to determine the quality indicators of productivity of sheep wool and correctly note their features, organization of exhibitions and auctions.

5. Summary table, reflecting the volume of loans disbursed in the context of the educational program:

Quantity	Deeth. credit					
Qua	шехэ	7	8			15
oin	Total in acader szuod	009	006	540		2040
	IstoT	30	30	30		06
Number of academic credits	Experimental research work by a Master's Degree student including an internship and a Master's Thesis	2		16		18
Number o	Work placement internship		2	2		7
	lsoitevetical gainisrt	28	28			48
s studied	0C	4	4			&
Number of disciplines studied	nc	3	4			7
	Semester	1	7	т	4	al
əs.	ruos gninisaT	-	-	}	=	Total

Competence of the profile master's degree in Training are 7M08203 – «Technology production of livestock products»

Description of competence, rus.	Type compete nce	№ compe tence
Knowledge of history and philosophy of science development	ПК	1
Ability to conduct reasoned conversation on a wide range of scientific issues	ПК	2
Ability to demonstrate broad-mindedness in matters of philosophy of science, psychology and pedagogy	ПК	3
Ability to conduct a professional conversation in an international environment in English	ПК	4
Be competent in matters of innovative technology of production of animal products;	ПК	5
Be competent: in questions of application of various methodological approaches for the zootechnical and chemical analysis of forages, receptions and technology of production of forages and fodder means; abilities independently to organize and carry out scientific researches with use of modern methods of technology of production of forages, the analysis of soil and vegetative samples.	ПК	6
The master's student must be competent in the performance of production, organizational and managerial and experimental research activities at enterprises and organizations of the agro-industrial complex.	ПК	7
in matters of genetics, breeding and breeding and reproduction of farm animals;	ПК	8
be competent to generalize and critically evaluate the results obtained by domestic and foreign researchers, to identify promising areas, experiments of biometric processing of experimental data, writing of experimental methodology, registration of patent rights and rights of authors of inventions of other intellectual property objects.	ПК	9
In matters of cow's milk production technology	ПК	10
In matters of beef production technology	ПК	11
- test horses at the evaluation of the riding and trotting horse breeds, in the definition of rating racehorses and trotting horses, the determination of prizes in equestrian sport; when montirovka riding and trotting horses.	ПК	12
in conducting research and the use of modern methods in meat and dairy horse breeding	ПК	13
conduct zootechnical and breeding accounting and reporting using genetic-mathematical and statistical analysis using computers and personal computers;	ПК	14
to conduct breeding work with birds of different species in a specific technology; to manage the work of shops, teams, laboratories; to	ПК	15

conduct zootechnical and breeding accounting and reporting using genetic, mathematical and statistical analysis using computers and personal computers; to make decisions independently	, ,	
to be competent: skills of cultivation, intensive cultivation and the organization of the correct feeding and fattening, technologies of complex scientific researches of slaughter, pre-slaughter and slaughter weight, slaughter output, structure and cuts, weight and size of carcass, difference of weight of steam and in the cooled carcasses, chemical composition of meat of sheep of various directions of productivity for production of mutton	ПК	16
in matters of methodology search and use classifications standards wool sherstopererabatyvayuschee industry, skills identification, methods of assessing the quality and safety of semi-finished product for the diagnosis of defects, skills, the organisation of acceptance of woolen raw material quality and quantity, rules of the technology for primary processing, grading and cleaning, storage, transportation and labelling of wool.	ПК	17
Knowledge of the basics of scientific research, management of scientific projects, business solutions	ПК	18
Ability to control the psychological climate in the production team	ПК	19
The ability to select personnel for professional suitability	ПК	20
Ability to form in collective psychology of safe thinking	ПК	21
Ability to work with scientific and special literature in search of solutions to scientific problems.	ПК	22
Understanding the special social, scientific and technical significance of their profession	ПК	23
The desire to continue scientific education in the chosen specialty and o develop as a scientist in demand by the labor market	ПК	24
Ability to professional growth and professional mobility	ПК	25

Information about disciplines

tencies							urces in a foreign	me).											ents ' needs for	nanagerial nature	qualities of future		' ideas about the		ности в поиске		uate methods of
Emerging competencies (code)		Component				Competences:	- work with lexicographic sources in a foreign	language (traditional and on-line).										Competences:	- in the formation of students ' needs for	knowledge and skills of a managerial nature	and professionally important qualities of future	specialists;	- in the formation of students ' ideas about the	basics of management;	- в развитии самостоятельности в поиске	информации;	- in the application of adequate methods of
Sem		ptional				_					1000 J							2									
Number of	09	ponent / O	15	9		2												2									
Brief description of the discipline	Theoretical training	Cycle of basic disciplines University component / Optional Component	Core subjects cycle (CS)	University component (UC):		The main purpose of the discipline is a systematic	deepening of communicative competence in the	Iramework of international standards of foreign language	and abilities of active English language proficiency in the	professional activity of the future master of science.	Development of undergraduate skills:	- reading literature in English in the specialty for	receiving and transmitting scientific information;	- processing of extracted information in the form of	translations, annotations, abstracts;	- conducting conversations in English on topics related	to the specialty and scientific work of the undergraduate.	Examines the subject, essence, objectives and	structure of management psychology, methods of	psychological research and the main approaches to its	study. Examines the psychology of the subject of	management, the psychology of cognitive activity,	perceptual, MNEMIC, thought processes in management.	The course forms ideas about etiquette in the activities of	a modern business person, communicative competence of	the head, emotional and volitional States in management	activities and the ability to manage.
Name of discipline					including:	Foreign	language (for	specific specific	(cocod md										Managerial	Psychology							
N ₀	-		1.1	1)		1.1.1												1.1.2									

Competencies: - to introduce students to the most important management issues; - in the formation of modern managerial thinking among students; - introduction to classical and modern management theories; - develop practical skills for analyzing and solving management problems; - to study the methods of organization management and practical ways of their	9*	1d horse breeding»/ in both English .No.1	Competences: Be competent in matters technology of production of and	Comology of production of annual products;	4 l Competences: Be competent: in questions of application	methodological approaches for the zootechnical and chemical analysis of forages, receptions and technology of production of forages and fodder means; abilities independently to	organize and carry out scientific researches with use of modern methods of technology of
The course provides for the study and assimilation by undergraduates of the basic concepts and key issues of modern management, mastering the basic practical skills in this area, the formation of professional thinking that contributes to the understanding of the essence of management processes and the acquisition of competencies necessary for the formation of an effective manager.		Educational trajectory Nel «Technology of production of cattle breeding and horse breeding»/ in both English Nel	The concept and economic essence of innovation and innovation activity. Financing of agriculture in terms of innovative development of the economy of Kazakhstan. Priority directions of innovation strategy of agroindustrial complex. Innovative technologies of livestock production	and food safety. Technology of cultivation of young growth of agricultural animals and birds, preparation of certain types of feed and feed mixtures	The course examines the need for full-fledged detailed feeding of farm animals and birds, valuable producers,	characteristics. The diets and feeding norms of which should correspond to their species and age characteristics, having a positive impact on their viability, productivity	and feed conversion.
I.I.3 Management	Optional component (OC)	Educational tra	Innovative technologies of production of animal products		Detailed nutrition of farm	animals and birds	

		Major subjects cycle University component / Optional Component	onent / Opt	ional (Component
		Major subjects cycle (MS)	45		
		University component (UC):	20		
1.2.1	Project in management in	The essence and methods of project management in entrepreneurship Pre-investment phase of the project	7	2	Competences: - professional analysis of
	the field of				project goals, objectives, and conditions; - design of a change project;
	entrepreneurship	entrepreneurship. Planning project. Project cost			luation of the pro
		Managing project activities. Management of the project	*		In implementing project management functions.
		resources. Project risk management. Quality management			
		of the project. Managing the project team. Managing project communication in the field of entrepreneurshin			
1.2.2	Methodology of	Methodology and techniques of scientific and	5	-	Competences: he competent to generalize and
	scientific	economic, biotechnological, biochemical, zootechnical			critically evaluate the results obtained by
	research in	and physiological experiments, experiments on animal			
	anima	feeding, selection and genetic nature and the study of the			promising areas, experiments of biometric
	husbandry	impact, the issues of their organization, accounting			processing of experimental data, writing of
		results, mathematical analysis of experimental data, the			experimental methodology, registration of
		experiment in animal husbandry, mastering the			patent rights and rights of authors of inventions
		mathematical base of experiment planning and processing			of other intellectual property objects.
		of digital experimental material with the use of computer			
		technology, literary design of research results, coverage of the basics of natenting			
1.2.3	Managing	Familiarization with the decision-making process starting		C	
	business	from the formalization of the initial problem, through the	r	7	competences:
	solutions	construction and solution of a mathematical model on a			undern meth
		computer to the analysis of the solution and the formation			odeling and analysis
		of a management decision. Formation of skills for			
		building and solving mathematical models and analyzing			
		these solutions on the computer. Consideration of			
		production, transport and financial models of tasks for			
		choosing management solutions.			
1.2.4	Conflictology	isiders the main categories of conflict	4	2	Competences:
		typology of conflicts, technologies of conflict			- in diagnosing and preventing conflicts;

2) Optional component (OC) 1.2.5 Management of genetic resources in animal husbandry 1.2.6 Theoretical bases of		5 1	technology, conflict prevention and resolution; - in using the principles of analysis and management of organizational conflicts; - in possession of various ways to resolve conflict situations on the basis of modern technology of personnel management. Competencies: The master's student must be competent in the performance of production, organizational and managerial and experimental research activities at enterprises and organizations of the agroindustrial complex Competencies: The master's student must be competent in master's student must be competent in
1.2.7 Technology of	populations. Correlations and regressions. Principles of the use of analysis of variance in biological research. Inheritability and repeatability of economically useful traits. The influence of the environment on the genotypic diversity of characters. Genotype and environment interaction. The use of correlations between traits in breeding. Complex selection at the same time on several grounds. Definition of parameters of the structure of the population. Educational trajectory Net «Technology of production of cattle breeding and horse breeding» As a result of mastering this discipline, a master's student can know the technologies of cow's milk competences: In	tle breeding	ality signs sistence and a signs and a signs matters of

production technology	Competences: In matters of beef production technology	and sheep»	Competences: conduct zootechnical and breeding accounting and reporting using genetic-mathematical and statistical analysis using computers and personal computers;	Competences: to conduct breeding work with birds of different species in a specific technology; to manage the work of shops, teams, laboratories; to conduct zootechnical and breeding accounting and reporting using genetic, mathematical and statistical analysis using computers and personal computers; to make decisions independently	
	7	poultry	2	7	1,2
	S	uction of	9	S	4
production. The equipn Purpose of y groups, beel cattle, herd breeds, the u young anime cattle.	The course examines the biological and productive features of horses of productive use. The optimal structure of the herd of the meat direction. Breeding of young horses of the meat direction. Fattening and feeding of horses. Dairy productivity of horses. Otseka and selection of mares for seasonal and stationary kumys farms.	Educational trajectory No2 «Technology of production of poultry and sheep»	As a result of mastering this discipline, a master's student can know the indicators of sheep meat productivity that allow developing and implementing a rational technology for the production and processing of sheep meat products, increasing the production of lamb and lamb, technologies for the production and processing of sheep wool, methods of techniques and methods for obtaining products and processing, in particular high-quality wool.	Undergraduates have the opportunity to study the national economic significance of industrial poultry farming. The state and prospects of development of industrial poultry farming. Biological features of farm birds. Breeding methods. Selection methods. Selection and selection. Breeding work with a bird. Egg and meat productivity.	
beef and milk production	Technology of production of horse breeding products		Technology of production processing of sheep meat and wool	Fundamentals of industrial production of poultry products	Work placement internship
	1.2.8		12.9	0	3)

2 Experimental	research work by a	Master's Degree	student (ERW)	1) Experimental	research work by a	Master's Degree	student including	an internship and a	Master's Thesis.	3 Additional	types of	training (ATT)	1) Preparation and	defence of Master's	Thesis (PDMT)	Total
81				18									12	1		00
1,3				1.3									4			

Practice bases

$\mathcal{N}_{\underline{0}}$	Name of companies,	Contacts,
	enterprises, organizations	E-mail
1	Bayserke-Agro LLP	8777368936
2	Dinara-Ranch Agrofirm LLP	87773075520
3	Masakpay LLP	87784504088
		trsultan230595@gmail.com
4	LLP "Elim-ai"	87772125024
5	KH "Bereke"	87774670870
6	SPK "Azamat 2"	87773243007
		Akzhol 77@mail.ru
7	SPK "Almaty"	8701722 90 78
8	Halyk Trans-1 LLP	87012220982
9	CC "MM"	87010924948
10	KH "Intykpay"	87022514377
11	Birlik LLP	87077970007
12	JSC "Tribal Plant Zhenis"	Zhenis@ mail.ru
		87076680063
13	Adil Ranch	87015336797
14	KH "Olzha"	87779469966
15	KH "Alisher"	87103351333
16	KH "Aidarbaev"	terlikbaeva_s@mail.ru
		87051594050
		87273867919, 87273913191
		rh_saimasai@mail.ru
17	Sarybulak Company LLP	
18	Madi Farm	87029448899
		akterek@mail.ru
19	Farm "Kumtekey"	87025293470
20	Farm "Batay-Shu"	87017457575, 87017208240
21	Farm "Bakey"	87233941442, 87017789911
		bakei_agro@mail.ru
22	Zhaksylyk Farm	87273036526
23	Republican Center for Livestock	871651738150
	Breeding "Asyl-Tulik", JSC	ao.asyl-tulik@mail.ru
24	Livestock complex "Karoy"	+77474267401
25	SEC "Plemzavod " Almaty"	+7 727 394-30-10,
		info@dinaragroup.kz